

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/603,566 06/25/2003		Valerie Wittamer	9409/2045B	7945			
29933	7590 01/19/2006		EXAM	INER			
	DODGE, LLP		LI, RUIX	KIANG			
	M. WILLIAMS IGTON AVENUE		ART UNIT	PAPER NUMBER			
BOSTON, M	IA 02199		1646				

DATE MAILED: 01/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)									
		10/603,566	WITTAMER ET AL.									
	Office Action Summary	Examiner	Art Unit									
		Ruixiang Li	1646									
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address									
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	l. lely filed the mailing date of this communication. D (35 U.S.C. § 133).									
Status												
1)🖂	Responsive to communication(s) filed on 20 Oc	<u>ctober 2005</u> .										
2a)	This action is FINAL . 2b)⊠ This	action is non-final.										
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is											
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.											
Dispositi	on of Claims											
4)⊠	Claim(s) 1-10,20 and 22 is/are pending in the a	application.										
•	4a) Of the above claim(s) 6-9 is/are withdrawn f											
5)	Claim(s) is/are allowed.											
6)⊠	Claim(s) <u>1-5,10,20 and 22</u> is/are rejected.											
7)	Claim(s) is/are objected to.											
8)	Claim(s) are subject to restriction and/or	r election requirement.										
Applicati	ion Papers											
9)	The specification is objected to by the Examine	r.										
,	The drawing(s) filed on <u>06/25/2003</u> is/are: a)⊠		the Examiner.									
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).									
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.									
Priority (under 35 U.S.C. § 119											
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).									
,	1. Certified copies of the priority documents	s have been received.										
	2. Certified copies of the priority documents	s have been received in Application	on No									
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage									
	application from the International Bureau	ı (PCT Rule 17.2(a)).										
* 9	See the attached detailed Office action for a list of	of the certified copies not receive	d.									
Attachmen	t(s)											
	e of References Cited (PTO-892)	4) Interview Summary										
3) 🔯 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 10/3/03 & 6/2/05.	Paper No(s)/Mail Da 5)	atent Application (PTO-152)									

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I (claims 2-4, 10, 20, and 22) and species of SEQ ID NO: 61 in the reply filed on 10/20/2005 is acknowledged. In view of Applicants' elected species, claim 5 will be included in Group I. The traversal is on the ground that the polypeptide of SEQ ID NO: 92 is common to the sequences of all three groups and therefore a search of Group I will necessarily encounter the sequences of Groups II and III. This is not found persuasive because while SEQ ID NO: 61, a single species of degenerate SEQ ID NO: 92, is common to the sequences of all three groups, not all the encompassed species are common to the polypeptides of all three groups. Moreover, even for the elected species, SEQ ID NO: 61, which is common to the polypeptides of all three groups, a search of SEQ ID NO: 61 is not sufficient for the search of other polypeptides. For example, if the prior art teaches polypeptide comprising SEQ ID NO: 61, it does not necessarily mean that the prior art teaches SEQ ID NOS: 12, 14, or 73. Thus, the polypeptides of Groups I, II, and III require non-cohensive searches and considerations.

Applicants also argue that claim 1 is a linking claim that links Group I to Group III. This is not persuasive because as written, the claims of Group III do not depend upon claim 1 and thus are not linked by claim 1.

The requirement is still deemed proper and is therefore made FINAL.

Art Unit: 1646

Applicants' preliminary amendments filed on 09/22/2003, 01/15/2004, 06/08/2004, and 03/24/2005 have been entered in full. Claims 1-10, 20, and 22 are pending.
 Claims 1-5, 10, 20, and 22 are under consideration.

Information Disclosure Statement

3. The information disclosure statements filed on 10/03/2003 and 06/02/2005 have been considered by the examiner.

Drawings

4. The drawings filed on 06/25/2003 are accepted by the Examiner.

Claim Rejections—35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1-5 are rejected under 35 U.S.C. §101 because the claimed invention is directed non-statutory subject matter.

Claims 1-5, as written, do not sufficiently distinguish over a peptide that exists naturally because the claims do not particularly point out any non-naturally occurring differences between the claimed products and the naturally occurring products. In the absence of the hand of man, the naturally occurring products are considered non-statutory subject matter. See Diamond v. Chakrabarty, 447 U.S. 303, 206 USPQ 193 (1980). The claims should be amended to indicate the hand of the inventor, e.g., by

insertion of "isolated" or "purified" as taught by page of the specification. See MPEP 2105.

Claim Rejections—35 USC §102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 1-5 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagpal et al. (*J. Invest. Dermatol.* 109: 91-95, 1997).

Nagpal et al. teach a polypeptide that comprises the polypeptide of SEQ ID NO: 61 (see attached sequence alignment), meeting the limitations of claims 1-5 and 20.

9. Claims 1-5, 10, 20, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Lal et al. (US Patent Application Publication No. 2005/0084936 A1, publication date: April 21, 2005; 102 (e) date: December 31, 1997).

Lal et al. teach a polypeptide that comprises the amino acid sequence of SEQ ID NO: 61 (see attached sequence alignment summary table), a pharmaceutical composition comprising the polypeptide (see [0028], [0305] to [0322]), and the

Application/Control Number: 10/603,566 Page 5

Art Unit: 1646

labeled polypeptide with fluorescent probe (see [0269]) or an epitope tag (see

[0270]), meeting the limitations of claims 1-5, 10, 20, and 22.

Conclusion

10. No claims are allowed.

Advisory Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ruixiang Li whose telephone number is (571) 272-0875.

The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00

pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Brenda Brumback, can be reached on (571) 272-0961. The fax number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, please contact the Electronic

Business Center (EBC) at the toll-free phone number 866-217-9197.

Kurtiang L. Ruixiang Li, Ph.D.

Primary Examiner

January 6, 2005

```
STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene 228:161-167(1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE
6.07.00.6
6.00.6
6.00.6
                                                                                                   6.000
                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                         HUMAN
                                                                            696660
                                                                                                                                                                                                                                                             LIG2_HUMAN
                                                                                                                                                                                                                                               RESULT
 233
                                        TAREA 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pongo pygma
homo sapien
cricetulus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entamoeba h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     encephalito
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 homo sapien
homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mus.musculu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chromobacte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            arabidopsis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           candida alb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     homo sapien
xylella fas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rattus norv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           acinetobact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       debaryomyce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              xylella fas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    endomonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     seudomonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            eroides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bacteroides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       drosophila
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   drosophila
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mycoplasma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        egionella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             colobus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       wolinella
rhizobium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           anopheles
                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                       ); Search time 234 Seconds
(without alignments)
27.136 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q88yel
Q9w0u5
Q521z5
Q8wtv0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    66buu6
059fm4
087d11
09poc8
09qwk1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q4zm30
Q88ah9
Q4j8w1
Q51899
Q64nj9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q5r551
Q71e02
Q8hdg8
Q5bk77
Q7mr17
Q989d1
Q9dd06
Q516h6
Q516h6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q8svc7
Q7ny09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q98ug3
Q7qc17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      696660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q5aia8
                                                                                                                                                                                                                                                             2166443
              5.1.6
Compugen Ltd.
                                                                                                                                                                                                                                                          Total number of hats satisfying chosen parameters:
                                                                                                                                                                                                                                  2166443 segs, 705528306 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CHRVO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ANOGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q9WOUS_DROME
Q52LZS_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEBHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              XYLFA
            GenCore version
Copyright (c) 1993 - 2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OSSYE1 DROME
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CANAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LEGPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q5L899 BACFN
Q64NJ9 BACFR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MYCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENCCU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2989D1 RHIL
                                                                                        2, 2005, 05:45:20
                                                                - protein search, using sw model
                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q4J8W1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q59FM4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q87DL1
                                                                                                                                                                                                         Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q7NAS9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SCR B1
                                                                                                                                                                                                                                                                                                                                                                              UniProt_05.80:*
1: uniprod sprot:*
2: uniprot_trembl:*
                                                                                                                                                                                                                                                                                       seq length: 0
seq length: 2000000000
                                                                                                                                      US-10-603-566A-61
51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                   1 YPPGQFAPS 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               509
                                                                                        December
                                                                                                                                                                                             BLOSUM62
                                                                                                                                                        re:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Scoring table
                                                                otein
                                                                                                                                                         800
                                                                                                                                                                                                                                                                                       Minimum DB
Maximum DB
                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                   Searched:
                                                                                                                                                                                                                                                                                                                                                                                  Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             e
E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š.
                                                              MO P≱
                                                                                        Run
```

```
TISSUESALANDE,

TISSUESALANDE,

TISSUESALANDE,

TISSUESALANDE,

TENDINE-22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

RIAUSBER R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RIAUSBER R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul R.F., Jordan H., Moore T. Max S.I., Wang J., Haieh F.,

BALSCHUL R., Soares M.B., Enamer A.A., Rubin G.M., Hong L.,

Brownstein M.J., Usdin T.B., Ponaldo M.F., Carninci P., Frange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Millahy S.J.,

Richards S. A., McEwan P.J., McKernan K.J., Malek J.A., Gunaranne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Glbbs R.A.,

Nhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Blakesley R.W., Touchman J.W., Green B.D., Dickson M.C.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Rotriguez A.C., Grimwood J., Schmutz J., Marra M.A.;

Butterfield Y.S.N., Trzywinski M.I., Skaleka U., Smailus D.E.,

Butterfield Y.S.N., Trzywinski M.I., Skaleka U., Smailus D.E.,

Generation and initial analysis of more than 15,000 full-length human,
                                                                                                                                  xylella fas
                                                                                                                                                            xanthomonas
                                                                                                                                                                                                                           xanthomonae
                                                                                                                                                                                                                                                                                                                nomo sapien
oos taurus
                                                                                                                                                                                          rattus norv
                                                                                                                                                                                                                                                        xanthomonas
                                                                                                                                                                                                                                                                                  mus musculu
                                                                                                                                                                                                                                                                                                                                                                                                              synechococc
                                                                                                                                                                                                                                                                                                                                                                              taurus
                                                                                              eishmania
                                                                    ralstonia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Skin;
MEDINE=97348957; PubMed=9204961; DOI=10.1111/1523-1747.ep12276660;
Magpal S., Patel S., Jacobe H., DiSepio D., Ghosn C., Malhotra M.,
Teng M., Duvic M., Chandreratna R.A.S.;
"Tazarotene-induced gene 2 (TIG2), a novel retinoid-responsive gene in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE-Gastric adenocarcinoma;
MEDLINE-9917380; PubMed-10072769; DOI=10.1016/S0378-1119(99)00004-9;
Yokoyama-Kobayashi M., Yamaguchi T., Sekine S., Kato S.;
"Selection of CDNAs encoding putative type II membrane proteins on the cell surface from a human full-length CDNA bank.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
110-MAY-2005 (Rel. 47, Last annotation update)
110-MAY-2005 (Rel. 47, Last annotation update)
110duced gene 2 protein (RAR-responsive protein TiG2)
Name-RARRES2; Synonyms=TiG2;
Homo saplens (Human)
                                                                                                                                                                                                                                                                                                                                                bos
                                                              Q8xps3
Q4qiy2
Q87ay1
Q87ay1
Q4urw8
Q8pbn1
Q80x18
Q14028
Q14028
Q77659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             163 AA.
0974M0 SULSO
YMZ0 YEAST
08XF53 RALSO
0401Y2 LEIMA
087AY1 XYLFT
085157 RAT
055157 RAT
0540KW8 XANCP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALIGNMENTS
                                                                                                                                                                                                                                                                                  MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                              SYNEI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Invest. Dermatol. 109:91-95(1997)
                                                                                                                                                                                                                                                                                                                   CNGB1 H
077658 0
047659 1
                                                                                                                                                                                                                                                                                  OBOXL8
```

ö

Gарв

.. 0

0; Indels

Ą

```
RX MEDLINE=22737994, PubMed=12853948, DOI=10.1038/nature01782;
RA Hillier L.W., Fulcon R.S., Fulton L.A., Graves T.A., Pepin K.H.,
RA Hillier L.W., Schlon M.S., Fulton L.A., Graves T.A., Pepin K.H.,
RA Wille K., Sekhon M. Becker M.C., O'Laughlin M.D., Schaller M.E.,
RA Wille K., Sekhon M. Becker M.C., O'Laughlin M.D., Schaller M.E.,
RA Sun H., Edwards J., Bkadshaw-Cordum H., Ali J., Andrews S., Isak A.,
RA Sun H., Edwards J., Bkadshaw-Cordum H., Ali J., Andrews S., Isak A.,
RA Strong C.M., Hou S., Tonninson C., Dauphin-Kohlberg S.,
RA Strong C.M., Hou S., Tonninson C., Dauphin-Kohlberg S.,
RA Strong C.M., Hou S., Tonninson C., Dauphin-Kohlberg S.,
RA Latreille P., Miller N., Johnson D., Murray J., Woessener J.P.,
RA Latreille P., Miller M. W., Johnson D., Murray J., Woessener J.P.,
RA Hickenbotham M.T., Belfed J., Walliss J.W., Spieth J.,
RA Glifton S.W., Chissoe S.L., Marray M.A., Raymond C., Haugen E.,
RA Gillett W., Zhou Y., James R., Phalps K., Iadanoto S., Bubb K.,
RA Baertsch R.A., Brent M.R., Ralber E. Plicek P., Bork P., Suyama M.,
R Bailey J.A., Brent M.R., Ralber E. Plicek P., Bork P., Suyama M.,
R Bailey J.A., Wilson R.K.,
R Bailey J.A., Wilson R.K.,
R Waterston R.H., Wilson R.K.;
R Waterston R.H., Wilson R.K.;
R Materston R.H., Wilson R.K.;
R Mature 424:157-164(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryoèb; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Buarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Halleck A., Ebert L., Mkoundinya M., Schick M., Eisenstein S., Neubert P., Kstrang K., Schatten R., Shen B., Henze S., Mar W., Korn B., Zuo D., Hu Y., LaBaer J.; Submitted (JUN-2004) to the EMBL/Genbank/DDBJ databases.

EMBL; AC005586; AAS00384.1; -; Genomic_DNA.

EMBL; CR541992; CAG46789.1; -; mRNA.
100.0%; Score 51; DB 1; Length 163; 100.0%; Pred. No. 0.091;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wilson R.;
Submitted (JAN-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Le T., Ozersky P., Stoneking T., Wohldmann P.; Submitted (SEP-1998) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to the EMBL/GenBank/DDBJ databask
                                                                                                                                                                                                                                                                                                                                                                                                                                  10-MAY-2005 (TrEMBLrel. 30, Last sequence update) 10-MAY-2005 (TrEMBLrel. 30, Last annotation update) Hypothetical protein RARRES2.
                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                        Created)
                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                        Q-MAY-2005 (TrEMBLrel. 30,
                                                                                                                                                                                                                                                                                                                                               Q7LE02_HUMAN PRELIMINARY;
                                                               Conservative
                                                                                                                                                                                         149 YFPGQFAFS 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Waterston R.;
Submitted (SEP-2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Waterston R.;
Submitted (APR-2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human)
                                                                                                                            1 YFPGQFAFS 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SECUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUCLEOTIDE SEQUENCE
      Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=$606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wilson R.
                                                                                                                                                                                                                                                                                                               HUMAN
                                                                                                                                                                                                                                                                            RESULT 3

OFFICION CONTROL OF CON
                                                                                                                                                                                      유
                                                                                                                                  ð
                                                                                                                                                                                                                                                                     This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This Swiss-Prot entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  binformatics Institute. There are no restrictions on its its content is in no way modified and this statement is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL outstation

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
-!- SUBCELLULAR LOCATION: Secreted (Potential).
-!- TISSUE SPECIFICITY: Highly expressed in skin (basal and suprabasal layers of the epidermis, hair follicles and endothelial cells).
Also found in pancreas, liver, spleen, prostate, ovary, small intestine and colon.

                                                                                                                                                                                                                     -!- INDUCTION: Inhibited in psoriatic lesions. Activated by tazarotene in skin rafts and in the epidermis of psoriatic lesions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Potential.
Retinoic acid receptor responder protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Retinoic acid receptor responder protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 51; DB 1; Length 163; 100.0%; Pred. No. 0.091;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        between the Sylss Institute of Bioinformatics and the the European Bioinformatics Institute. There are no res
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE-LYver;
The German cDNA consortium;
Submitted VOOV-2004) to the EMBL/GenBank/DDBJ databases.
-- SUBCELLNIAR LOCATION: Secreted (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A96EB7D0999EC3DB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A96EB7D5D2D1726B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-MAY-2005 (Rel. 47, Created)
10-MAY-2005 (Rel. 47, Last sequence update)
10-MAY-2005 (Rel. 47, Last annotation update)
Retinoic acid receptor responder protein 2 precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   163 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MIM; 601973; -.
GO; GO:0001523; P:retinoid metabolism; IDA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ensembl; ENSG0000106538; Homo sapiens. "HGNC; HGNC:9868; RARRES2. "H-InvDB; HIX0007202; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTYDE SEQUENCE [LARGE SCALE MRNA].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL, U77594; AAB47975.1; -; MRNA.
EMBL; AB015632; BAA76499.1; -; MRNA.
EMBL; BC000069; AAH00069.1; -; MRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; CR861021; CAH33115.1; -; mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              163 AA; 18618 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .`
≩
            cDNA sequences.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             149 YPPGOFAFS 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
hes 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 YFPGOFAFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     163 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     use as long as i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            axID=9600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ame=RARRES2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TIG2 PONPY
Q5R551;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ignal.
íGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TIG2_PONPY
```

RESULT 2

Page 1 US Patent Application Publication No.

```
2, 2005, 05:57:31; Search time 165 Seconds (without alignments) 22.791 Million cell updates/sec
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                  - protein search, using sw model
                                                                                                                          December
                                                                                OM protein
                                                                                                                          Run on:
```

US-10-603-566A-61 51 1 YPPGQFAFS 9 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1867569 segs, 417829326 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Database :

Published Applications AA Main:*

(cgn2_6/ptodata/1/pubpaa/USO7_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/USO9_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/USIOA_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/USIOB_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/USIOB_PUBCOMB.pep:*

(cgn2_6/ptodata/1/pubpaa/USIOB_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	! rd	4	4	4	4	-	4	4	ת	ᅻ	4	4	4	<u>ر</u>	4	4	ŭ	4	ヹ	4	4	ď	4		٦	4	ユ
	App	Apr	App]		App	Apr	Apr	Api	Apr	Apr	Apr	Apr	App]	App	App	App	App	App	App	App	App	App	App	App	App	App]	Apr
g	61,	61,	62,	62,	85,	85,	63,	e,	64,	64,	84,	84,	83,	83,	31,	31,	22,	23,	22,	23	54,	54,	52,	25	14,	14,	12,
Description	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence
	!																										
	10-603-566-61	10-893-485-61	10-603-566-62	893-485-62	10-603-566-85	.0-893-485-85	3-566-63	893-485-63	3-566-64	893-485-64	3-566-84	-10-893-485-84	0-603-566-83	3-485-83	9-905-253A-31	1-187-31	0-603-566-22	-10-603-566-53	3-485-22	3-485-53	-10-603-566-54	3-485-54	603-566-52	893-485-52	603-566-14	893-485-14	10-603-566-12
9	US-10-60	US-10-89	US-10-60	US-10-89	-10	US-10-89	US-10-603-	-10	-10	-10-	US-10-603-	US-10-89	US-10-60	US-10-893-485-83	۰	US-10-201-187	ᅻ	US-10-60	US-10-893-485-	US-10-893-485-	US-10-60	-10	å	US-10-89	US-10-60	US-10-89	US-10-60
DB	4	S	4	ស	4	s	4	Ŋ	4	Ŋ	4,	Ŋ	4	Ŋ	m	4	4	4	ഗ	S	4	ភ	4	'n	4	ın.	4
% Query Match Length DB	6	6	10	10	11	11	12	12	13	13	15	15	17	17	18	18	19	19	19	19	20	20	25	25	137	137	143
Query Match	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Score	51	51	51	51	51	51	. 51	51	51	51	51	51	51	51	51	51	51	51	51	. 51	51	51	51	51	51	51	21
Result No.		7	m	4	w	9	7	60	σ	10	11	12	13	. 14	15	16	17	18	. 19	. 50	21	22	23.	24	25	26	27

7200084936	Sequence 12, Appl	48,	Sequence 73, Appl	Sequence 73, Appl	Sequence 945, App	Sequence 8, Appli	8	Sequence 8, Appli	Sequence 17, Appl	Sequence 66, Appl	Sequence 8, Appli	Sequence 4779, Ap	Sequence 5, Appli	Sequence 71, Appl	Sequence 71, Appl	Sequence 97, Appl	Sequence 91, Appl	Sequence 91, Appl
									`	V								
	13 5 US-10-893-485-12	17 4 US-10-201-187-48	17 4 US-10-603-566-73	57 5 US-10-893-485-73 ·	10 3 US-09-925-301-945	3 3 US-09-905-253A-8	4	3 4 US-10-603-566-8	3 5 US-10-626-686-17	3 S US-10-965-898-66	'n	3 5 US-10-756-149-4779	3 5 US-10-958-527-5.	9 4 US-10-603-566-71	9 5 US-10-893-485-71	9 5 US-10-893-485-97	.3 4 US-10-603-566-91	.3 5 US-10-893-485-91
	143	15	15	157	16	16	16	16	16	16	163	163	163				-	-
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.1	94.1	92.2	92.2	92.2
	51	5	51	5	5	2	5	51	51	51	51	2	21	48	48	47	47	47
	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

```
Sequence 61, Application US/10603566
| Publication No. US2004008696A1 | Cangance 61, Application No. US2004008696A1 | Canganta Involvantation No. US2004008696A1 | Canganta Involvantation No. US2004008696A1 | Canganta Involvantation National National APPLICANT: Communi, David | APPLICANT: Vandenbogaerde, Ann | APPLICANT: Vandenbogaerde, Ann | APPLICANT: Parmentier, Marc | TITLE OF INVORMION: Compositions and Methods Comprising a Ligand of ChemerinR | FILE REFERENCE: 9409/2212 | CURRENT APPLICANTON NUMBER: US/10/603,566 | CURRENT APPLICATION NUMBER: US 60/303,868 | PRIOR FILING DATE: 2001-07-09 | PRIOR PLILING DATE: 2001-07-09 | PRIOR PLILING DATE: 2001-07-13 | PRIOR FILING DATE: 2001-07-23 | NUMBER OF SEQ ID NOS: 91 | SOFTWARE: Patentin Version 3.2 | SEQ ID NO 61 | SEQ ID NO 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 61, Application US/10893485
Publication No. US20050155090A1
GENERAL INFORMATION:
APPLICANT: Wittamer, Valerie
APPLICANT: Communi, David
APPLICANT: Parmentier, Marc
APPLICANT: Parmentier, Marc
APPLICANT: Parmentier, Marc
TITLE REPERENCE: 9409/2045C
TURRENT APPLICATION: Compositions and Methods Comprising a Ligand of ChemerinR
FILE REFERENCE: 9409/2045C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 51; DB 4; L
100.0%; Pred. No. 1.7e+06;
ative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Homo sapiens
US-10-603-566-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 YPPGQFAFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 YPPGOPAFS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-893-485-61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```